

1 7. The method of claim 1, wherein the input value is in a first intensity
2 range and the output value is in a second intensity range of values that are capable of
3 being rendered by the output device.

1 8. The method of claim 7, wherein the first and second intensity ranges
2 comprise a plurality of intensity values, and wherein the second intensity range has
3 fewer intensity values than the first intensity range.

1 9. The method of claim 7, wherein the first and second intensity ranges
2 comprise a plurality of intensity values, and wherein the first intensity range has fewer
3 intensity values than the second intensity range.

1 10. The method of claim 7, wherein halftoning the input value further
2 comprises:
3 determining a value for the input value from a first matrix of values;
4 using the input value and the determined value to produce an intermediate
5 output value in the first intensity range; and
6 using a second matrix to determine one output value in the second intensity
7 range based on the intermediate output value in the first intensity range, wherein the
8 second matrix provides one output value in the second intensity range for any given
9 intermediate output value in the first intensity range.

1 11. The method of claim 10, wherein using the input value and the
2 determined value from the first matrix comprises:
3 subtracting the determined value from the input value to produce the
4 intermediary output value.

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